



TRO  
CEL  
LEN

INSULATION

# TROCELLLEN ISOLMASS

Multy-layered products with heavy layer

Sound insulation





# Isolmass

## HEAVY LAYER PRODUCT: THE ALTERNATIVE TO LEAD

Under the APLOMB brand, **TROCELLEN** has been commercializing for many years a multi-layer product, with one or more sheets of lead, laminated with flexible insulating materials. Lead is not always readily accepted by installers and designers; which is why we have developed an alternative with a polyolefin heavy layer.

## ADVANTAGES COMPARED TO LEAD

- Non-toxic
- Easily combinable with Trocellen, to obtain a completely recyclable product
- Roll width > 1 m
- Available everywhere.

## DISADVANTAGES COMPARED TO LEAD

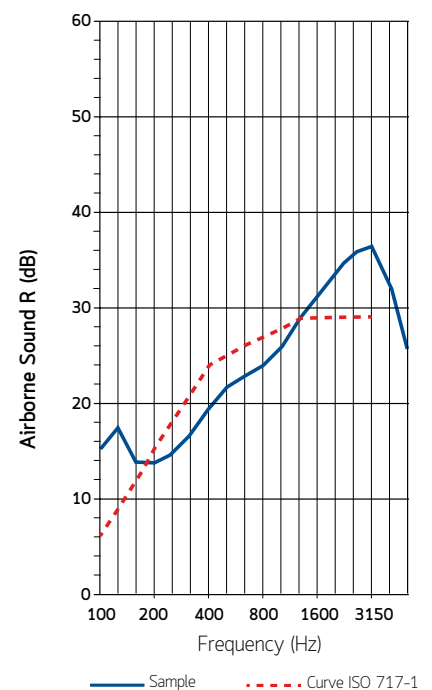
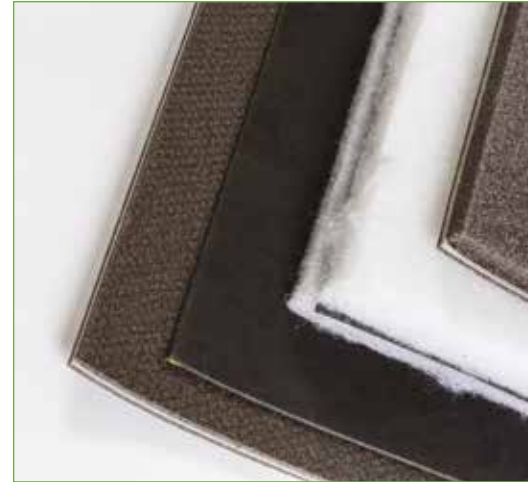
- For an equal weight in grams, greater thickness must be used: this causes a more rigid final product
- More elastic, less malleable than lead
- More voluminous packaging
- Fire retardant to be added.

## ISOLMASS PRODUCT LINE

A multi-layered product range, with heavy sleeve, laminated with flexible, resilient and sound absorbing materials.

## ISOLMASS 11

- Composition:
  - layer of polyethylene foam (anti-vibration), **thickness 3 mm**
  - heavy layer weighing **4 kg/m<sup>2</sup>**
  - layer of open cell polyurethane (sound absorption), **thickness 12 mm**
- Size: sheet **1,20 x 3,00 m**
- Packaging: rolled in cardboard box (0,25 x 0,25 x 1,20 m)
- Applications: **Sound insulation of waste water piping**, in polyethylene or PVC. The product must be installed with the polyurethane in contact with the pipe. Wrap it around the pipe, taking care not to leave any exposed parts and secure it mechanically with straps or metal wire.
- **Sound insulation of walls**: evaluation index, with a sample curve at 500 Hz, calculating the frequency range between 100 and 3150 Hz (ISO 140-3, ISO 717-1): **R<sub>w</sub> = 25 dB**



## ISOLMASS 22

- Composition:
  - layer of polyethylene foam (anti-vibration), **thickness 3 mm**
  - heavy layer weighing **4 kg/m<sup>2</sup>**
  - layer of polyethylene foam (anti-vibration), **thickness 3 mm**
- Size: sheets **1,20 x 3,00 m**
- Packaging: rolled in cardboard box (0,25 x 0,25 x 1,20 m)
- Applications: **Flooring underlay and in civil construction walls.** It is used to reduce low frequency sound waves, supplying mass to the partition.
- **Sound insulation of walls:** evaluation index, with a sample curve at 500 Hz, calculating the frequency range between 100 and 3150 Hz (ISO 140-3, ISO 717-1): **Rw = 25 dB**



## ISOLMASS 1 TECH

- Composition:
  - layer of polyester fiber (PET), **thickness 10 mm**
  - heavy layer weighing **4 kg/m<sup>2</sup>**
  - layer of polyester fiber (PET), **thickness 20 mm**
- Size: sheets **1,20 x 1,50 m**
- Applications: **Sound insulation of civil construction walls,** air-ducting, metal panels, plasterboard partitions.
- **Sound insulation of walls:** evaluation index, with a sample curve at 500 Hz, calculating the frequency range between 100 and 3150 Hz (ISO 140-3, ISO 717-1): **Rw = 25 dB**



## ISOLMASS 4 TECH

- Composition:
  - layer of polyester fiber (PET), **thickness 20 mm**
  - heavy layer weighing **4 kg/m<sup>2</sup>**
- Size: sheets **1,20 x 1,50 m**
- Applications: **Sound insulation of civil construction walls,** air-ducting, metal panels, plasterboard partitions.
- **Sound insulation of walls:** evaluation index, with a sample curve at 500 Hz, calculating the frequency range between 100 and 3150 Hz (ISO 140-3, ISO 717-1): **Rw = 25 dB**





## ISOLMASS 4

- Composition:
  - heavy layer weighing **4 kg/m<sup>2</sup>**
- Size: sheets **1,20 x 2,00 m**
- Applications: **Sound insulation of civil construction walls**, air-ducting, metal panels, plasterboard partitions. Used as vibration damping for airborne sound insulation of partitions.
- **Sound insulation of walls:** evaluation index, with a sample curve at 500 Hz, calculating the frequency range between 100 and 3150 Hz (ISO 140-3, ISO 717-1): **Rw = 25 dB**

**ISOLMASS** is available with heavy layer weighing from 2 to 8 kg/m<sup>2</sup> (from 3 to 10 kg/m<sup>2</sup> for the fire retardant version).

## ITEM SPECIFICATIONS

### TROCELLEN ISOLMASS 11

A three-layer composite product for airborne sound insulation of waste water pipes in plastic and partitions in general. Composed of a heavy, charged polyolefinic layer, laminated on a side with

**TROCELLEN** cross-linked PE foam with a thickness of 3 mm, and on the other side with open cell PU with a thickness of 12 mm.

Net weight: 4,4 kg/m<sup>2</sup>.

### TROCELLEN ISOLMASS 22

A three-layer composite product for impact and airborne sound insulation of floors and walls. Composed of a charged, polyolefin heavy layer, laminated on both sides with **TROCELLEN** cross-linked PE foam with a thickness of 3 mm. Net weight: 4,2 kg/m<sup>2</sup>.

### TROCELLEN ISOLMASS 1 TECH

A three-layer composite product for airborne sound insulation partitions in general.

Composed of a charged, polyolefin heavy layer, laminated on both sides with polyester fiber (PET) with a thickness of 10 and 20 mm.

Net weight: 5,2 kg/m<sup>2</sup>.

### TROCELLEN ISOLMASS 4 TECH

A two-layer composite product for airborne sound insulation partitions in general.

Composed of a charged, polyolefin heavy layer, laminated on one sides with polyester fiber (PET) with a thickness of 20 mm.

Net weight: 4,8 kg/m<sup>2</sup>.

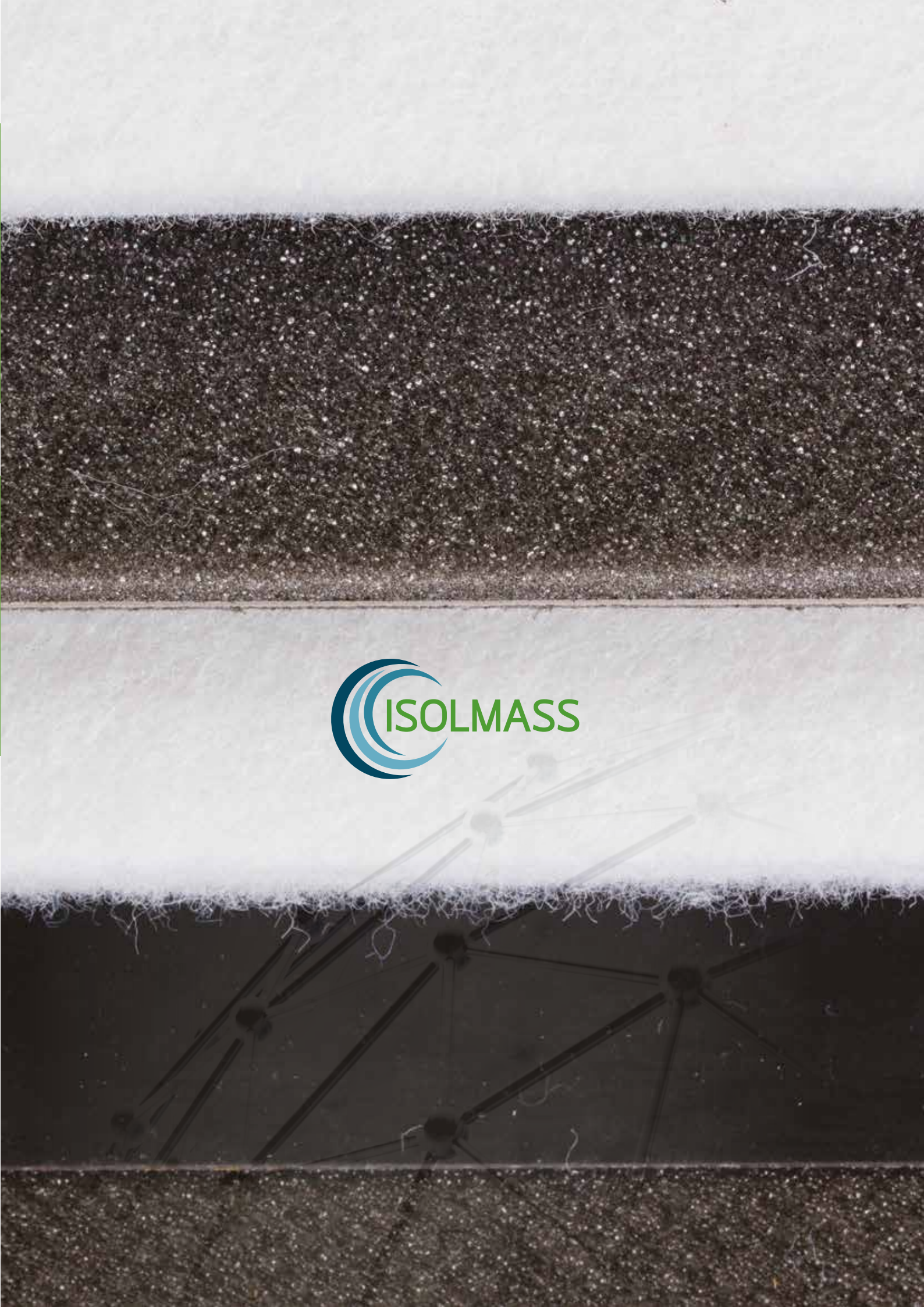
### TROCELLEN ISOLMASS 4

A single layer product, used as vibration damping for airborne sound insulation of partitions. Composed only of heavy layer, thickness 2 ÷ 4 mm.

Net weight: 4 kg/m<sup>2</sup>.







## INTERNATIONAL LOCATIONS

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## TROCELLEN\*

Trocellen is the first choice European polyolefin foam-solution provider. Through continuous innovations and successful partnerships we dedicate ourselves to one goal: protecting and providing comfort for people.

After more than 40 years, with 600 employees at seven sites and many cooperating companies, various partner universities, institutes and designers we offer solutions for our business partners in various industries such as construction and insulation, automotive, leisure and professional sport, adhesive tapes, footwear and packaging.

\*Trocellen is the member of Furukawa Group.



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50° 49' N	07° 09' O	Germany
40° 28' N	03° 21' O	Spain
41° 53' N	12° 28' O	Italy
47° 30' N	19° 02' O	Hungary
02° 54' N	101° 28' O	Malaysia
35° 40' N	139° 49' O	Japan FURUKAWA

